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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,713	09/30/2003	Jianxin Wang	66329/31252	6323
23380	7590	12/13/2007		
TUCKER ELLIS & WEST LLP 1150 HUNTINGTON BUILDING 925 EUCLID AVENUE CLEVELAND, OH 44115-1414			EXAMINER MCLEAN, NEIL R	
			ART UNIT 2625	PAPER NUMBER
			NOTIFICATION DATE 12/13/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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<b>Office Action Summary</b>	Application No. 10/675,713	Applicant(s) WANG ET AL.	
	Examiner Neil R. McLean	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 September 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 September 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's arguments with respect to claims 1-28 have been considered but are moot in view of the new ground(s) of rejection.

Regarding Applicants argument:

Lozano fails to teach the port association wherein "a port from the at least one selected accessible printer is mapped to a port on a printer driver on the client machine"

Lozano et al. does not disclose expressly mapping a port from the at least one selected accessible printer to a port on a printer driver on the client machine.

Kim discloses mapping a port from the at least one selected accessible printer to a port on a printer driver on the client machine (Page 1, [0005], lines 1-8).

Lozano et al. & Kim are combinable because they are from the same field of endeavor of image processing.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to map a port from the at least one selected accessible printer to a port on a printer driver on the client machine.

The suggestion/motivation for doing so would have been so that the user does not have to manually search and connect a port before transmitting the print data to the printer.

Therefore, it would have been obvious to combine Kim's method of setting a port with Lozano et al's system of installing printers to obtain the invention as specified in claims 1 - 28.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lozano et al. (US 2004/0030809) in view of Kim (US 2003/0128386).

Regarding Claim 1:

Lozano et al. teaches a method for a printer driver ([0038], line 10) on a client machine ([0037], line 3) to communicate with a network printer ([0051], line 9) communicatively coupled to a print server ([0051], line 11), comprising the steps of:

searching a computer network (program step 200 in Figure 1) for at least one printer accessible by the client machine ([0042], lines 1-3) via connection through an associated server ([0051], lines 4-17);

selecting at least one accessible printer located by an associated user ([0042], lines 3-7 and step 108 in Figure 1);

retrieving identifier data associated with each selected printer ([0052], lines 1-8);  
retrieving a network address, corresponding to the at least one accessible  
printer selected by the user ([0051], lines 1-4 and step 200 in Figure 1);  
storing ([0035]) the network address, corresponding identifier data and a  
network path corresponding to the at least one selected accessible printer in an internal  
value table ([0046]) of the client machine ([0052], lines 1-4 and 202 in Figure 2); and  
mapping a port in accordance with the value table (e.g., server based database  
described in [0080], lines 7-8; ), wherein the printer driver of the client machine is able  
to pass through an actual port associated therewith for bidirectional data communication  
([0006], lines 8-9) with the at least one selected accessible printer ([0044], lines 1-9 and  
step 300 in Figure 1 and [0051], lines 4-17).

Lozano et al. does not disclose expressly mapping a port from the at least one  
selected accessible printer to a port on a printer driver on the client machine.

Kim discloses mapping a port from the at least one selected accessible printer to  
a port on a printer driver on the client machine (Page 1, [0005], lines 1-8).

Lozano et al. & Kim are combinable because they are from the same field of  
endeavor of image processing.

At the time of the invention, it would have been obvious to a person of ordinary  
skill in the art to map a port from the at least one selected accessible printer to a port on  
a printer driver on the client machine.

The suggestion/motivation for doing so would have been so that the user does not have to manually search and connect a port before transmitting the print data to the printer.

Therefore, it would have been obvious to combine Kim's method of setting a port with Lozano et al's system of installing printers to obtain the invention as specified in claim 1.

Regarding Claim 2:

The method of claim 1, further comprising the step of downloading a printer driver from an associated print server ([0050], see program step 700).

Regarding Claim 3:

The method of claim 1 further comprising the step of exporting a function to the printer driver ([0042], lines 3-7).

Regarding Claim 4:

The method of claim 1, wherein the network address is an Internet Protocol address ([0059], lines 1-9).

Regarding Claim 5:

The method of claim 1, wherein the network address is a proprietary network protocol address ([0067], lines 1-18).

Regarding Claim 6:

The method of 5, wherein the proprietary network protocol is an Internet Packet Exchange protocol ([0067], lines 1-18).

Regarding Claim 7:

The method of claim 1, wherein the storing step further comprises storing an associated port name corresponding to the at least one selected accessible printer in an internal value table of the client machine ([0052], lines 1-3).

Regarding Claim 8:

Lozano et al. teaches a system for a printer driver ([0038], line 10) on a client machine ([0037], line 3) to communicate with a network printer ([0051], line 9) communicatively coupled to a print server ([0051], line 11), comprising:

means (the software code of the browser program that is described in [0042], lines 1-3) adapted for searching a computer network (program step 200 in Figure 1) for at least one printer accessible by the client machine via connection through an associated server ([0051], lines 4-17);

means (the software code of the browser program that is described in [0042], lines 3-7) adapted for selecting at least one accessible printer located by an associated user (step 108 in Figure 1);

means adapted for retrieving identifier data associated with each selected printer

([0052], lines 1-8);

means (the software code of the browser program that is described in [0051], lines 1-4) adapted for retrieving a network address corresponding to the at least one accessible printer selected by the user user (step 200 in Figure 1);

means (the software code of the browser program that is described in [0052], lines 1-4) adapted for storing ([0035]) the network address, corresponding identifier data and a network path corresponding to the at least one selected accessible printer in an internal value table ([0046]) of the client machine (202 in Figure 2); and

means (the software code of the browser program that is described in [0044], lines 1-9; and [0051], lines 4-17) adapted for mapping a port in accordance with the value table (e.g., server based database described in [0080], lines 7-8), wherein the printer driver of the client machine is able to pass through an actual port associated therewith for bidirectional data communication ([0006], lines 8-9) with the at least one selected accessible printer (step 300 in Figure 1).

Lozano et al. does not disclose expressly mapping a port from the at least one selected accessible printer to a port on a printer driver on the client machine.

Kim discloses mapping a port from the at least one selected accessible printer to a port on a printer driver on the client machine (Page 1, [0005], lines 1-8).

Lozano et al. & Kim are combinable because they are from the same field of endeavor of image processing.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to map a port from the at least one selected accessible printer to a port on a printer driver on the client machine.

The suggestion/motivation for doing so would have been so that the user does not have to manually search and connect a port before transmitting the print data to the printer.

Therefore, it would have been obvious to combine Kim's method of setting a port with Lozano et al's system of installing printers to obtain the invention as specified in claim 8.

Regarding Claim 9:

The system of claim 8, further comprising means adapted for downloading an associated printer driver from a print server ([0050], see program step 700).

Regarding Claim 10:

The system of claim 8, further comprising means adapted for exporting a function to the printer driver ([0042], lines 3-7).

Regarding Claim 11:

The system of claim 8, wherein the network address is an Internet Protocol address ([0059], lines 1-9).

Regarding Claim 12:

The system of claim 8, wherein the network address is a proprietary network protocol address ([0067], lines 1-18).

Regarding Claim 13:

The system of 12, wherein the proprietary network protocol is an Internet Packet Exchange protocol ([0067], lines 1-18).

Regarding Claim 14:

The system of claim 8, further comprising means adapted for storing an associated port name corresponding to the at least one selected accessible printer in an internal value table of the client machine ([0052], lines 1-3).

Regarding Claim 15:

A computer-implemented for a printer driver ([0038], line 10) on a client machine ([0037], line 3) to communicate with a network printer ([0051], line 9) communicatively coupled to a print server ([0051], line 11), comprising the steps of:

searching a computer network (program step 200 in Figure 1) for at least one printer accessible by the client machine ([0042], lines 1-3) via a connection through an associated server ([0051], lines 4-17);

selecting at least one accessible printer located by an associated user;

retrieving identifier data associated with each selected printer ([0052], lines 1-8);

retrieving a network address corresponding to at least one accessible printer selected by a user ([0051], lines 1-4 and step 200 in Figure 1);

storing ([0035]) the network address, corresponding identifier data and a network path corresponding to the at least one selected accessible printer in an internal value table ([0046]) of the client machine ([0052], lines 1-4 and 202 in Figure 2); and

mapping a port in accordance with the value table (e.g., server based database described in [0080], lines 7-8), wherein the printer driver of the client machine is able to pass through an actual port associated therewith for bidirectional data communication ([0006], lines 8-9) with the at least one selected accessible printer ([0044], lines 1-9 and step 300 in Figure 1 and [0051], lines 4-17).

Lozano et al. does not disclose expressly mapping a port from the at least one selected accessible printer to a port on a printer driver on the client machine.

Kim discloses mapping a port from the at least one selected accessible printer to a port on a printer driver on the client machine (Page 1, [0005], lines 1-8).

Lozano et al. & Kim are combinable because they are from the same field of endeavor of image processing.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to map a port from the at least one selected accessible printer to a port on a printer driver on the client machine.

The suggestion/motivation for doing so would have been so that the user does not have to manually search and connect a port before transmitting the print data to the printer.

Therefore, it would have been obvious to combine Kim's method of setting a port with Lozano et al's system of installing printers to obtain the invention as specified in claim 15.

Regarding Claim 16:

The computer-implemented method of claim 15, further comprising the step of downloading a printer driver from a print server ([0050], see program step 700).

Regarding Claim 17:

The computer-implemented method of claim 15 further comprising the step of exporting a function to the printer driver ([0042], lines 3-7).

Regarding Claim 18:

The computer-implemented method of claim 15, wherein the network address is an Internet Protocol address ([0059], lines 1-9).

Regarding Claim 19:

The computer-implemented method of claim 15, wherein the network address is a proprietary network protocol address ([0067], lines 1-18).

Regarding Claim 20:

The computer-implemented method of 19, wherein the proprietary network protocol is an Internetwork Packet Exchange protocol ([0067], lines 1-18).

Regarding Claim 21:

The computer-implemented method of claim 15, wherein the storing step further comprises storing a port name corresponding to the at least one selected accessible printer in an internal value table of the client machine([0052], lines 1-3).

Regarding Claim 22:

A computer-readable medium for a printer driver ([0038], line10) on a client machine ([0037], line 3) to communicate with a network printer ([0051], line 9) communicatively coupled to a print server ([0051], line 11), comprising:

means (the software code of the browser program that is described in ([0042], lines 1-3) adapted for searching a computer network (program step 200 in Figure 1) for at least one printer accessible by the client machine via a connection through an associated server ([0051], lines 4-17);

means (the software code of the browser program that is described in ([0042], lines 3-7) adapted for selecting at least one accessible printer located by an associated user (step 108 in Figure 1);

means adapted for retrieving identifier data associated with each selected printer  
([0052], lines 1-8);

means (the software code of the browser program that is described in ([0051], lines 1-4) adapted for retrieving a network address corresponding to the at least one accessible printer selected by the user user (step 200 in Figure 1);

means (the software code of the browser program that is described in [0052], lines 1-4) adapted for storing the network address corresponding identifier data and a network path corresponding to the at least one selected accessible printer in an internal value table ([0046]) of the client machine (202 in Figure 2); and

means (the software code of the browser program that is described in [0044], lines 1-9; and [0051], lines 4-17) adapted for mapping a port in accordance with the value table(e.g., server based database described in [0080], lines 7-8), wherein the printer driver of the client machine is able to pass through an actual port associated therewith for bidirectional data communication ([0006], lines 8-9) with the at least one selected accessible printer (step 300 in Figure 1).

Lozano et al. does not disclose expressly mapping a port from the at least one selected accessible printer to a port on a printer driver on the client machine.

Kim discloses mapping a port from the at least one selected accessible printer to a port on a printer driver on the client machine (Page 1, [0005], lines 1-8).

Lozano et al. & Kim are combinable because they are from the same field of endeavor of image processing.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to map a port from the at least one selected accessible printer to a port on a printer driver on the client machine.

The suggestion/motivation for doing so would have been so that the user does not have to manually search and connect a port before transmitting the print data to the printer.

Therefore, it would have been obvious to combine Kim's method of setting a port with Lozano et al's system of installing printers to obtain the invention as specified in claim 22.

Regarding Claim 23:

The computer-readable medium of claim 22, further comprising means adapted for downloading a printer driver from a print server ([0050], see program step 700).

Regarding Claim 24:

The computer-readable medium of claim 22, further comprising means adapted for exporting a function to the printer driver ([0042], lines 3-7).

Regarding Claim 25:

The computer-readable medium of claim 22, wherein the network address is an Internet Protocol address ([0059], lines 1-9).

Regarding Claim 26:

The computer-readable medium of claim 22, wherein the network address is a proprietary network protocol address ([0067], lines 1-18).

Regarding Claim 27:

The computer-readable medium of 26, wherein the proprietary network protocol is an Internet Packet Exchange protocol ([0067], lines 1-18).

Regarding Claim 28:

The computer-readable medium of claim 22, further comprising means adapted for storing a port name corresponding to the at least one selected accessible printer in an internal value table of the client machine ([0052], lines 1-3).

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Schacht et al. (US 6,959,437) teaches receiving a request addressed to a first IP address from a network-connected computer workstation; supplying a web page from an embedded web server; in response to accessing the web server, causing printer driver software to be supplied to the computer workstation; receiving documents from the computer workstation in accordance with the supplied printer driver software; and, processing the received documents.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neil R. McLean whose telephone number is 571.270.1679. The examiner can normally be reached on Monday through Friday 7:30AM-5:00PM EST.

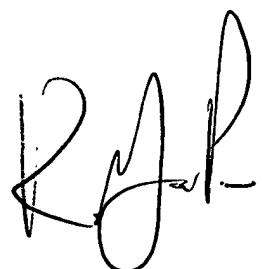
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on 571.272.7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Neil R. McLean  
12/8/2007

  
KING Y. POON  
SUPERVISORY PATENT EXAMINER